

Amendments to the Claims

The following listing of the claims will replace all prior versions, and listings of the claims in the application:

Listing of Claims

1. (Previously presented) An optical disk which comprises a track groove and on which positional information indicating a physical location on the track groove is represented by a wobble shape of the track groove,

wherein the optical disk includes a plurality of positional information units that are arranged on the track groove, and

wherein each said positional information unit includes:

a positional information section that represents the positional information by a combination of wobble patterns selected from multiple types of wobble patterns that have been defined so as to correspond to respective signal waveforms that rise and fall mutually differently;

a sync mark section having a wobble pattern in a shape distinguishable from the wobble patterns of the positional information section; and

a precision positioning mark section ahead of each said positional information section, wherein the positional information is read out from the optical disk by:

detecting the sync mark section that has been formed on the optical disk;

detecting the precision positioning mark section;

establishing a bit synchronization for the positional information using the sync mark section detected and/or the precision positioning mark section detected; and

reading out the positional information in accordance with the bit synchronization established in the step of establishing the bit synchronization for the positional information.

2. (Previously presented) An optical disk which comprises a track groove and on which positional information indicating a physical location on the track groove is represented by a wobble shape of the track groove,

wherein the optical disk includes a plurality of positional information units that are arranged on the track groove, and